

PATENT

Serial No. 10/527,119

Amendment in Reply to Office Action mailed on November 18, 2005

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A rotating data carrier, which can be processed in an apparatus having a motor for rotating ~~it~~ the carrier and an angle measuring device for providing ~~the~~ angular position of ~~the~~ a rotary part of the ~~disc~~ motor, ~~which~~ the angular position ~~is needed~~ being used for the commutation of the motor, ~~characterized in that wherein~~ marks are placed on ~~it~~ the carrier for determining the angle ~~by said angle measurer~~ angular position by the measuring device, the marks being at least one of continuous from a center of the carrier to a periphery of the carrier, located at an edge of the carrier, located at a periphery of the carrier, and notches.

2. (Currently Amended) A The data carrier as claimed in claim

PATENT

Serial No. 10/527,119

Amendment in Reply to Office Action mailed on November 18, 2005

1 ~~characterized in that wherein~~ the marks are formed by, at least,
a zone placed on the carrier.

3. (Currently Amended) A ~~The~~ data carrier as claimed in claim
1 ~~or 2, characterized in that wherein~~ the data carrier is an
optical disc.

4. (Currently Amended) A ~~The~~ data carrier as claimed in claim
2 ~~or 3 characterized in that the zones 1, wherein the marks~~ have a
rectangular form.

5. (Currently Amended) A ~~The~~ data carrier as claimed in claim
2 ~~or 3 characterized in that the zones 1, wherein the marks~~ have a
sector form.

6. (Currently Amended) A ~~The~~ data carrier as claimed in any
one of claims 3-5, ~~characterized in that zones claim 1, wherein the~~
~~marks~~ have a specific length with respect to ~~the~~ data written on
the ~~disc carrier~~ and have a reflectivity which ~~may be the same as~~
~~the is~~ substantially similar to reflectivity of the data.

PATENT

Serial No. 10/527,119

Amendment in Reply to Office Action mailed on November 18, 2005

Claims 7-8 (Canceled)

9. (Currently Amended) A The data carrier as claimed in any one of claims 1-8, characterized in that claim 1, wherein a hole is provided in a dead zone of the disc carrier for cooperating with a pin placed on a rotating plate attached to said motor, so that the angular position of the marks on the disc carrier is known determinable with respect to the rotary part (rotor) of the motor.

Claim 10 (Canceled)

11. (Currently Amended) An apparatus for processing data contained in a the data carrier as claimed in any one of claims 1-10, characterized in that it claim 1, wherein the apparatus comprises an angle measurer the angle measuring device configured to provide the angular position using said marks.

12. (Currently Amended) A method for measuring the an angle of a data carrier involving the following steps comprising the acts

PATENT

Serial No. 10/527,119

Amendment in Reply to Office Action mailed on November 18, 2005

of:[[~~-~~]] putting marks on the data ~~carrier~~, carrier;[[~~-~~]] detecting ~~the passing of the marks; and in the vicinity~~
~~of a detector~~,[[~~-~~]] ~~processing the output of the detector for providing said~~
~~measure~~,[[~~-~~]] ~~commutation of the motor/ control the motor~~ controlling
rotation of the data carrier in accordance with a result of the
detecting act;wherein the marks are at least one of continuous from a center
of the carrier to a periphery of the carrier, located at an edge of
the carrier, located at a periphery of the carrier, and notches.

13.(New) A device comprising:

a motor configured to rotate a data carrier; and

a detector configure to detect marks on the data carrier for
providing an angular position of a rotary part of the motor;wherein the marks are at least one of continuous from a center
of the data carrier to a periphery of the data carrier, located at
an edge of the data carrier, located at a periphery of the data

PATENT
Serial No. 10/527,119
Amendment in Reply to Office Action mailed on November 18, 2005

carrier, and notches.

14.(New) The device of claim 13, wherein the marks have at least one a rectangular form and a sector form.

15.(New) The device of claim 13, wherein mark lengths of the marks are different from data lengths data written on the data carrier.

16.(New) The device of claim 13, wherein the marks have a reflectivity which is substantially similar to a reflectivity of data written on the data carrier.

17.(New) The device of claim 13, wherein mark lengths of the marks are different from data lengths data written on the data carrier; the marks having a reflectivity which is substantially similar to a reflectivity of the data.

18.(New) The device of claim 13, wherein a hole is provided in a dead zone of the carrier for cooperating with a pin placed on

PATENT

Serial No. 10/527,119

Amendment in Reply to Office Action mailed on November 18, 2005

a rotating plate attached to the motor, so that the angular position of the marks on the carrier is determinable with respect to the rotary part of the motor.